

Amendments to the Claims

Claims 1-5 (Cancelled).

Claim 6 (Currently amended): An aluminum alloy coating process for cast iron and steel products, consisting of:

preparing to product a surface of the product by jet-abrasion; and then
plunging the prepared product into an aluminum melt having a temperature of 660 – 680°C and

alloyed with zinc, silicon, magnesium and tin having mass percentages of:

zinc 7.0-10.0

silicon 3.0-5.0

magnesium 0.5-1.5

tin 0.2-0.5,

for 70-80 seconds so as to coat the product with the alloy without the use of flux; and
bending the coated product being capable of winding on a 10 mm cylindrical mandrel without
breaking the alloy coating.

Claim 7 (New): An aluminum alloy coating process for cast iron and steel products,
consisting of:

preparing a surface of the product by jet-abrasion; and then

plunging the prepared product into an aluminum melt having a temperature of 660 – 680°C and

alloyed with zinc, silicon, magnesium and tin having mass percentages of:

zinc 7.0-10.0

silicon 3.0-5.0

magnesium 0.5-1.5

tin 0.2-0.5, and

for 70-80 seconds so as to coat the product with the alloy without the use of flux.

Claim 8 (New): An aluminum alloy coating process for cast iron and steel products, consisting of:
preparing a surface of the product by jet-abrasion; and then
plunging the prepared product into an aluminum melt having a temperature of 650 – 680°C and
alloyed with zinc, silicon, magnesium and tin having mass percentages of:
zinc 7.0-10.0
silicon 3.0-5.0
magnesium 0.5-1.5
tin 0.2-0.5, and
for 70-120 seconds so as to coat the product with the alloy without the use of flux.